



Certificate no.:
TAA00003K9

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Remote Control System, Propulsion, Thruster and Steering

with type designation(s)

Wärtsilä ProTouch / ProTouch extended / ProTouch Basic

issued to

Wärtsilä Norway AS

Meatjønnsvegen 74, Stord, Norway

is found to comply with

DNV rules for classification – Ships Pt.6 Ch.5 Sec.21 Cyber security

Application:

This type approval covers security capabilities for DNV Cyber security profile level 1 (SP1) and IACS UR E27, subject to conditions stated in this certificate.

Issued at **Høvik** on **2025-06-16**

This Certificate is valid until **2027-06-15**.

DNV local unit: **Mid-North Norway CMC**

for **DNV**

Approval Engineer: **Mirza Muqadam Baig**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

The PCS controls, monitors and operates propulsion units for vessel maneuvering. This approval covers the remote control system for propellers and steerable/transverse/retractable thrusters with fixed or controllable pitch as well as waterjets.

The system consists of the following components:

<i>Component Description</i>	<i>Type Designation</i>	<i>OS / Software version</i>
Controllers	CrossControl BCU Gateway	Refer to document DMTA00081252 (Wärtsilä) – approved F071 - Inventory list
	Wago PFC200	
Human Machine Interface (HMI)	Beijer X2 Marine 7	
Bridge and Side Displays	B&R Power Panel T80	
	Deif - Exor Deif AGI 400M / Exor Ex7xxM	
	CrossControl Bridge Main Display	
	CrossControl Side Display	
Switch	Westermo LF210-F2G	

Approval conditions

The following documentation of the actual application is to be submitted for approval in each case where the class notation Cyber secure(Essential) applies:

- Reference to this Type Approval Certificate
- F030 - System topology
- F071 - Inventory list
- F262 - Test report or declaration of hardening and security configuration.

Any modifications in the system to be delivered compared with the type approved system covered by this certificate shall be documented and submitted for approval in each case.

Major changes of the type approved system affecting future deliveries shall be informed to DNV. If the changes are considered to affect functionality for which rule requirements apply, a new functional type test may be required, and the certificate may have to be renewed to identify the new version. Minor changes are covered by this type approval.

Product certificate

Each delivery of the application system is to be certified according to Pt.6 Ch.5 Sec.21. After certification the clause for software control will be put into force.

Software control

All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV for evaluation and approval before implemented on board. Certification of modified functionality may be required for the particular vessel.

Application/Limitation

The following conditions shall be satisfied when the system is installed and used on a vessel where the class notation Cyber secure(Essential) applies:

- The system with its component shall be installed in a restricted area with means to prevent unauthorized access.
- The system shall not be connected to untrusted networks.
- The type approved products shall be installed with an external logging device ("syslog server"). This logging device shall have capacity for permanent storage.
- The type approved products connection to the DP system is allowed via serial communication. If Modbus TCP is used, the DP system must be within the security zone.

Tests carried out

Tested in accordance with requirements for DNV rules Pt.6 Ch.5 Sec.21 security profile 1, edition July 2024. Relevant manuals and instructions of Wärtsilä's management system have been verified for compliance with IACS UR E27 chapter 5.

Type Approval documentation

No.	Title	Description	Revision/Version
1	PCS Software Quality Assurance Plan (SQAP)	Representing F259, I320, Z100	r2
2	PCS Description of Compliance with DNV	Representing F021	31842 (rev.c)
3	PCS Network topology	Representing F030	r3
	PCS Cyber Security Configuration		r3
4	PCS Inventory list Propulsion Control System	Representing F071	r2
5	PCS Cyber Security Policy	Representing F141	r5
6	PCS TAT Test Procedure	Representing F252	31843 (rev.c)

At renewal of this TA certificate a complete list of modifications (i.e., an accumulated change log) shall be submitted.

Marking of product

- Hardware devices are marked with product name and type as listed in 'Product description' above.
- Software version(s) can be seen via each product's management interface.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given



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- Ensuring traceability between manufacturer's product type marking and the type approval certificate
- Review documented evidence of adherence to Secure Development Lifecycle processes.

A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE